

## Recombinant Human Interleukin-17F

### Information

<b>Gene ID</b>	112744
<b>Accession #</b>	Q96PD4
<b>Alternate Names</b>	ML-1, IL-24
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 30.1 kDa, a disulfide-linked homodimer of two 134 amino acid polypeptide chains.
<b>AA Sequence</b>	MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVMS SRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQGKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 6 mM HCl to a concentration of 0.1mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 20 ng/ml, corresponding to a specific activity of > 5.0×10 <sup>4</sup> IU/mg.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Interleukin-17F	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

## Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIL-17F as determined by LAL method.

## Description

Human Interleukin-17F (IL-17F) is encoded by the IL17F gene located on the chromosome 6 and belongs to the IL-17 family which contains IL-17A, IL-17B, IL-17C, IL-17D, IL-17E and IL-17F. IL-17F that shares 50 % homologous of crystal structure to IL-17A and is expressed by activated T cells, has the functions of stimulating production of other cytokines (such as IL-6, IL-8 and granulocyte colony-stimulating factor) and proliferation of PBMC and T-cell, regulating cartilage matrix turnover, and inhibiting angiogenesis.

## Reference

1. Mungall AJ, Palmer SA, Sims SK, et al. 2003. Nature 425: 805-11
2. Kolls JK, Linden A. 2004. Immunity 21: 467-76
3. Hymowitz SG, Filvaroff EH, Yin JP, et al. 2001. EMBO J 20: 5332-41
4. Starnes T, Robertson MJ, Sledge G, et al. 2001. J Immunol 167: 4137-40.

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